

NAME:

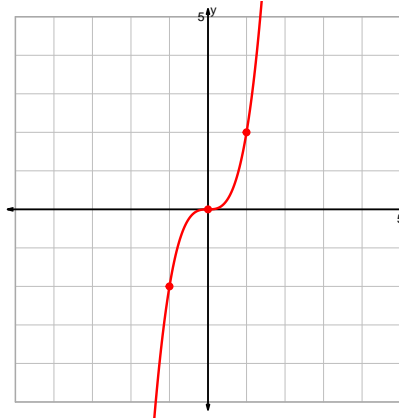
DATE:

## Unit-2 Reduced Mastery Assessment (version 308)

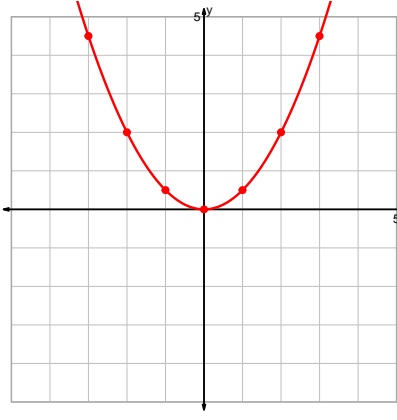
### Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

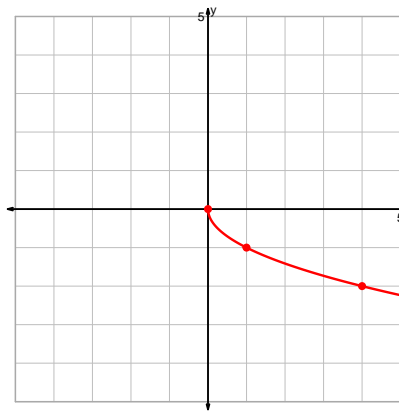
$$y = 2 \cdot x^3$$



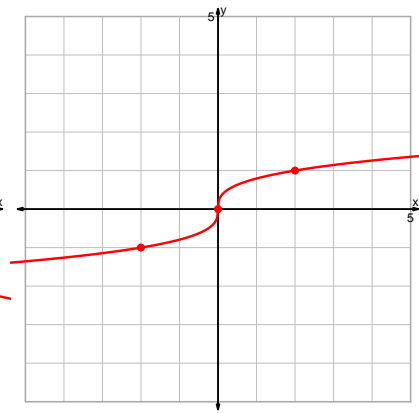
$$y = \frac{x^2}{2}$$



$$y = -\sqrt{x}$$

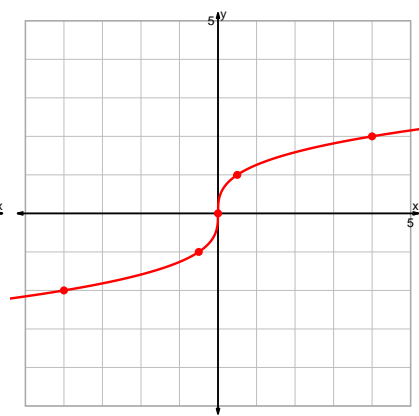
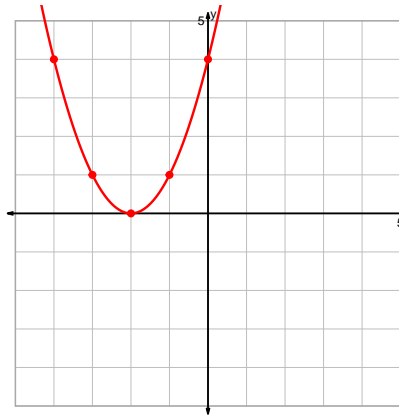


$$y = \sqrt[3]{\frac{x}{2}}$$



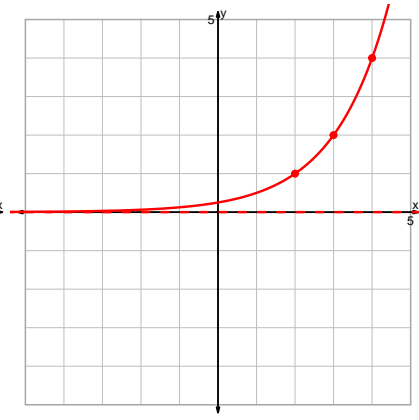
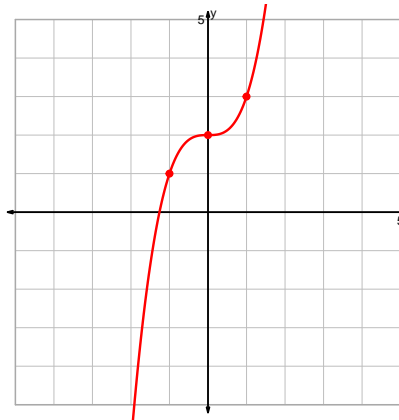
Question 2 continued...

$$y = (x+2)^2$$



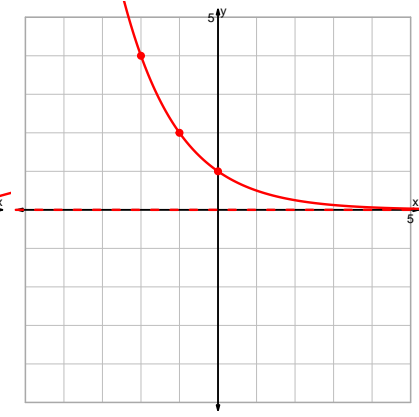
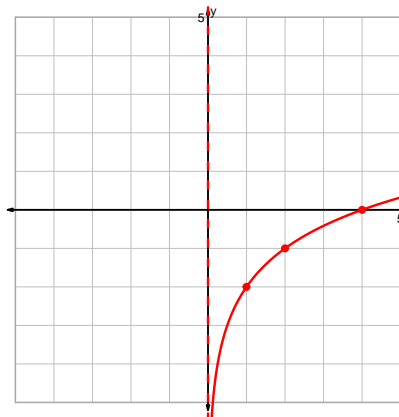
$$y = \sqrt[3]{2x}$$

$$y = x^3 + 2$$



$$y = 2^{x-2}$$

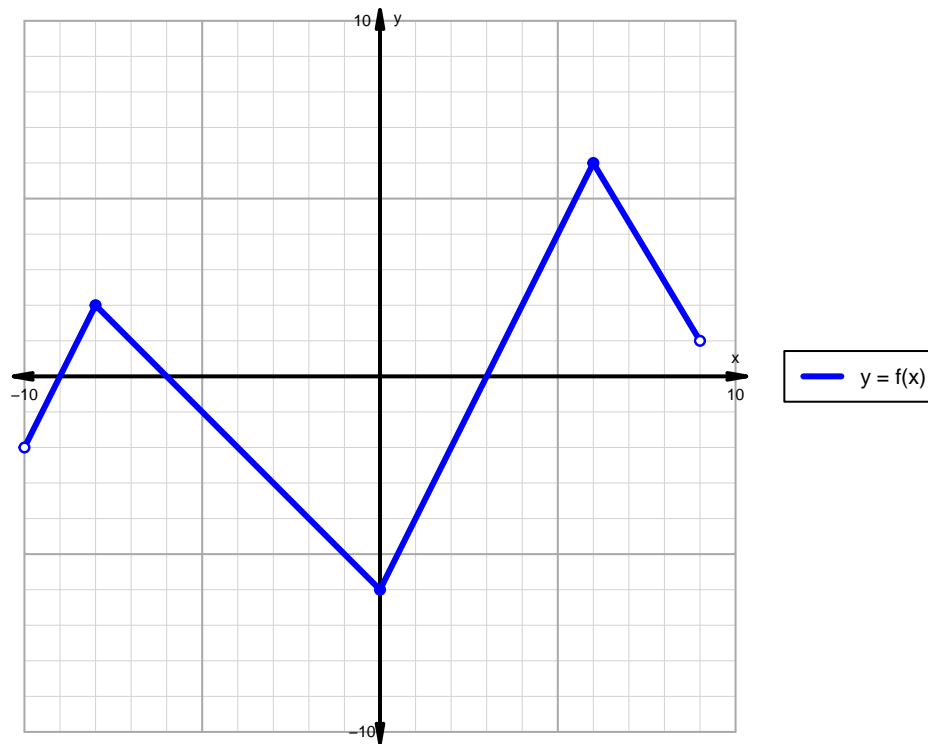
$$y = \log_2(x) - 2$$



$$y = 2^{-x}$$

## Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-9, -6) \cup (3, 9)$
Negative	$(-10, -9) \cup (-6, 3)$
Increasing	$(-10, -8) \cup (0, 6)$
Decreasing	$(-8, 0) \cup (6, 9)$
Domain	$(-10, 9)$
Range	$(-6, 6)$